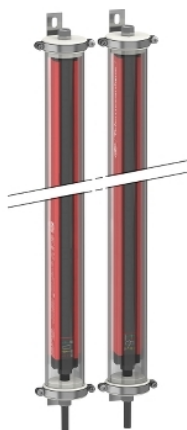


# XUSL4E14F061NWC

Safety light curtain type 4, Telemecanique  
Safety light curtains XUSL, XUSL Finger IP69K  
w/o Heating, Std Sensing Range, Hp = 610  
mm, R=14 mm



## Main

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Range of Product                 | Telemecanique Safety light curtains XUSL                                    |
| Product or Component Type        | Safety light curtain type 4                                                 |
| Device short name                | XUSL4E                                                                      |
| Output type                      | 2 safety outputs OSSD solid-state PNP arc suppression)                      |
| Product Specific Application     | For finger protection                                                       |
| [R] Resolution                   | 0.55 in (14 mm)                                                             |
| [Sn] nominal sensing distance    | 3.28...16.40 Ft (1...5 m) by cabling<br>0.00...6.56 ft (0...2 m) by cabling |
| [Hp] Height protected            | 24.02 in (610 mm)                                                           |
| Number of beams                  | 60                                                                          |
| Type of start / restart          | Automatic<br>Manual                                                         |
| External Device Monitoring (EDM) | Selected by wiring                                                          |

## Complementary

|                                |                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection system               | Transmitter-receiver system                                                                                                                                          |
| Response Time                  | 9 ms                                                                                                                                                                 |
| Kit composition                | Adjustable mounting bracket(s)<br>1 receiver(s)<br>1 transmitter(s)<br>1 user guide with certificate of conformity on CD-ROM<br>Silicone o-ring(s)<br>1 PVC cable(s) |
| [EAA] effective aperture angle | 2.5 ° at 3 m                                                                                                                                                         |
| Emission                       | IR LED 0.000037402 in (950 nm)                                                                                                                                       |
| [Us] rated supply voltage      | 24 V DC +/- 20 %                                                                                                                                                     |
| Supply                         | Power supply IEC 61496-1<br>Power supply IEC 60204-1                                                                                                                 |
| [Ie] rated operational current | 2 A                                                                                                                                                                  |
| Current consumption            | 42 mA no-load transmitter<br>83 mA no-load receiver<br>42 mA transmitter<br>900 mA with maximum load receiver                                                        |
| Output current limits          | 0.4 A safety outputs OSSD                                                                                                                                            |
| Output voltage                 | 24 V                                                                                                                                                                 |
| Output circuit type            | DC                                                                                                                                                                   |
| Maximum voltage drop           | <0.5 V                                                                                                                                                               |
| Local signalling               | 1 multi-colour LED transmitter<br>2 dual colour LEDs receiver                                                                                                        |
| Electrical connection          | 1 male connector M12 5 pins transmitter<br>1 male connector M12 8 pins receiver                                                                                      |
| Type of cable                  | Unshielded cable AWG 22 32.81 ft (10 m)                                                                                                                              |
| Ohmic cable resistance (per m) | 55.31 mOhm                                                                                                                                                           |

|                    |                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Function available | Test<br>Muting through external safety module XPSLCMUT1160<br>LED display of operating modes and faults<br>Anti-condensation system |
| Marking            | CE                                                                                                                                  |
| Material           | PMMA (polymethyl methacrylate) tube<br>Stainless steel AISI 316L sealing plug<br>PVC (polyvinyl chloride) Cable                     |
| Housing colour     | Red RAL 3000                                                                                                                        |
| Fixing Mode        | By fixing brackets                                                                                                                  |
| Net Weight         | 10.05 lb(US) (4.56 kg)                                                                                                              |
| Offer type         | Standard distance                                                                                                                   |
| Provided Equipment | Without heating system                                                                                                              |

## Environment

|                                       |                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Directives                            | 89/655/EEC - work equipment<br>98/37/EEC - machinery<br>89/336/EEC - electromagnetic compatibility               |
| Product Certifications                | CULus<br>Ecolab<br>TÜV<br>CE                                                                                     |
| Safety level (correctly wired)        | Type 4 IEC 61496-1<br>SIL 3 IEC 61508<br>SILCL 3 IEC 62061<br>Category 4 EN/ISO 13849-1<br>PL = e EN/ISO 13849-1 |
| Optical characteristic                | Resistance to light disturbance EN/IEC 61496-2                                                                   |
| Mission time                          | 20 year(s)                                                                                                       |
| Safety reliability data               | PFHd = 1.06E-8 1/h IEC 61508                                                                                     |
| Ambient Air Temperature for Operation | 14...131 °F (-10...55 °C)<br>-4...131 °F (-20...55 °C)                                                           |
| Ambient Air Temperature for Storage   | -22...158 °F (-30...70 °C)<br>-13...158 °F (-25...70 °C)                                                         |
| Relative Humidity                     | 0...95 % without condensation                                                                                    |
| IP degree of protection               | IP69K                                                                                                            |
| Shock resistance                      | 10 gn 16 ms IEC 61496-1                                                                                          |
| Vibration resistance                  | 0.35 +/- 0.05 mm 10...55 Hz)IEC 61496-1                                                                          |

## Ordering and shipping details

|                   |                             |
|-------------------|-----------------------------|
| Category          | 22455-LIGHT CURTAINS - XUSL |
| Discount Schedule | DS2                         |
| GTIN              | 3389119619684               |
| Returnability     | No                          |
| Country of origin | IT                          |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 5.31 in (13.5 cm)       |
| Package 1 Width              | 7.68 in (19.5 cm)       |
| Package 1 Length             | 27.56 in (70.0 cm)      |
| Package 1 Weight             | 12.27 lb(US) (5.566 kg) |

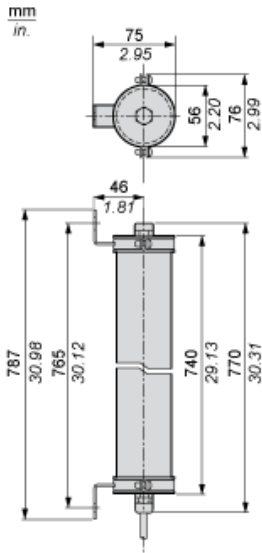
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

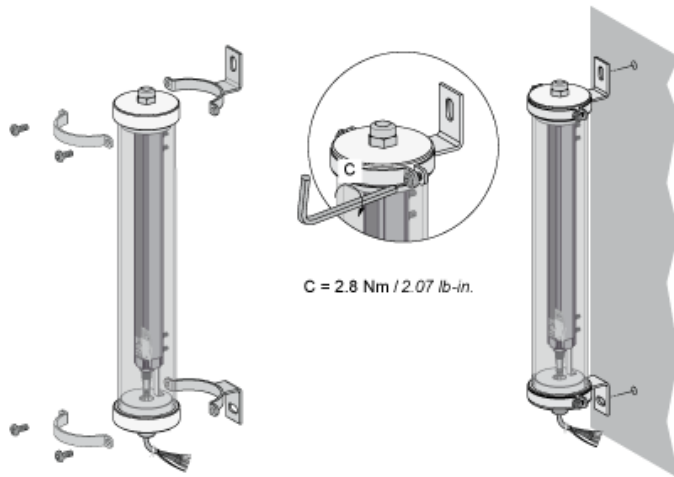
Dimensions



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Mounting and Clearance

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## Wiring Diagrams

### Transmitter Pre-wired

Brown: +24 Vdc

White: Configuration\_0

Blue: 0 Vdc

Green or Black: Configuration\_1

Grey: Functional Earth

Pink: Not connected

### Receiver pre-wired

White: Output signal switching device 1

Brown: +24 Vdc

Green: Output signal switching device 2

Yellow: Configuration\_A

Grey: K1\_K2 Feedback/Restart

Pink: Configuration\_B

Blue: 0 Vdc

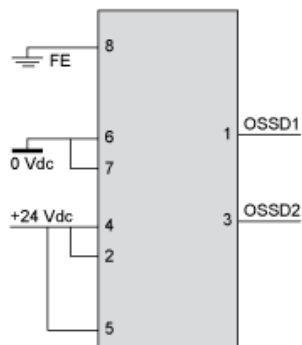
Yellow/Green (or Red): Functional Earth

For configuration\_A and configuration\_B, please refer to receiver configuration and operating modes

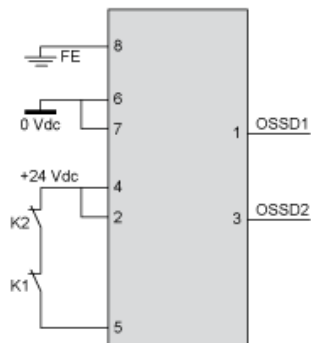
## Receiver Configurations and Operating Modes

### Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

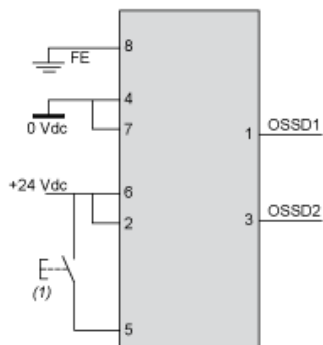


With External Device Monitoring (EDM) feedback loop



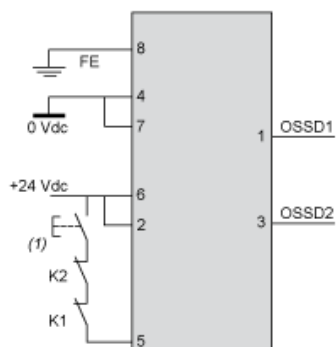
## Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



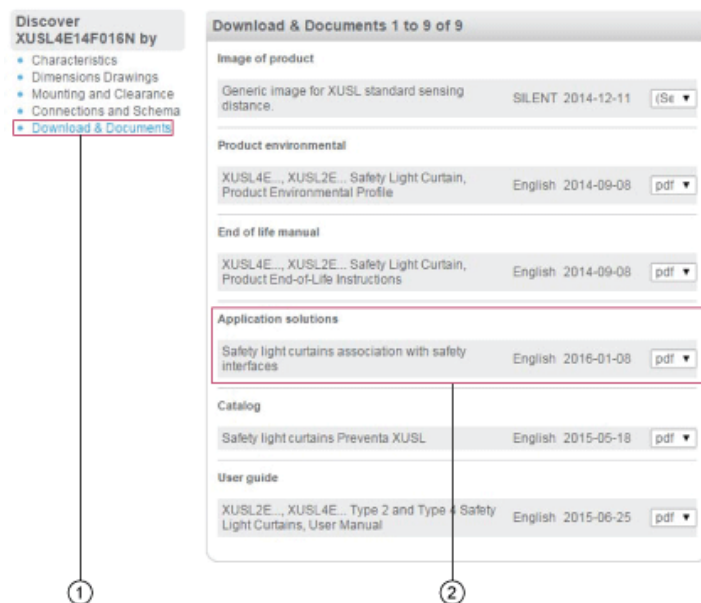
(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

## Connecting to a Safety Interface



1 : Click on Download & Documents

2 : Click on Application solutions

To have all connection schematics concerning our safety module, select "download and document" and download the file "Safety light curtains association with safety interfaces"

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